

CLAIMS

1. A display device including pixels that include first to n-th (where n is a natural number, $2 \leq n$) light-emitting elements that emit different emission colors,

5 wherein any one of the first to n-th light-emitting elements is sequentially selected and emits light.

2. A display device comprising:

first to $(n+1)$ th (where n is a natural number, $2 \leq n$) pixel electrodes;

10 first to n-th light-emitting elements that are disposed so as to be sandwiched between the first to $(n+1)$ th pixel electrodes and emit different emission colors;

pixels including first to n-th transistors for driving;

first to n-th current supply lines; and

a power line;

15 wherein:

the m-th (where m is a natural number, $1 \leq m \leq n$) pixel electrode is electrically connected to the m-th current supply line via the m-th transistor for driving,

the $(n+1)$ th pixel electrode is electrically connected to the power line, and

the potential difference between the pixel electrodes sandwiching the m-th

20 light-emitting element is sequentially adjusted so that the m-th light-emitting element selectively emits light.

3. A display device comprising:

first to $(n+1)$ th (where n is a natural number, $2 \leq n$) pixel electrodes;

25 first to n-th light-emitting elements that are disposed so as to be sandwiched

between the first to (n+1)th pixel electrode portions and emit different emission colors;

a transistor for switching;

pixels including first to n-th transistors for driving;

a source signal line;

5 a gate signal line;

first to n-th current supply lines; and

a power line;

wherein:

a gate electrode of the transistor for switching is electrically connected to the

10 gate signal line,

a first electrode of the transistor for switching is electrically connected to the

source signal line,

a second electrode of the transistor for switching is electrically connected to

gate electrodes of the first to n-th transistors for driving,

15 the m-th (where m is a natural number, 1≤m≤n) pixel electrode is electrically

connected to the m-th current supply line via the m-th transistor for driving, and

the (n+1)th pixel electrode is electrically connected to the power line.

4. The display device according to claim 3, further comprising:

20 a gate signal line for erasure; and

a transistor for erasure;

wherein:

the gate electrode of the transistor for erasure is electrically connected to the

signal line for erasure,

25 the first electrode of the transistor for erasure is electrically connected to the

gate electrodes of the first to n-th transistors for driving, and
the second electrode of the transistor for erasure is electrically connected to
any one of the first to n-th current supply lines.

5 5. The display device according to claim 3, further comprising:

a gate signal line for erasure;

a transistor for erasure; and

a retention volume line;

wherein:

10 the gate electrode of the transistor for erasure is electrically connected to the
gate signal line for erasure,

the first electrode of the transistor for erasure is electrically connected to the
gate electrodes of the first to n-th transistors for driving, and

15 a second electrode of the transistor for erasure is electrically connected to the
retention volume line.

6. The display device according to claim 3, further comprising:

a gate signal line for erasure; and

first to n-th transistors for erasure;

20 wherein:

the gate electrodes of the first to n-th transistors for erasure are electrically
connected to the gate signal line for erasure, and

the first to n-th transistors for erasure are disposed between the first to n-th
pixel electrodes and the first to n-th transistors for driving.

7. The display device according to claim 1, wherein the second to n-th pixel electrodes all comprise a transparent substance.

8. The display device according to claim 2, wherein the second to n-th pixel
5 electrodes all comprise a transparent substance.

9. The display device according to claim 3, wherein the second to n-th pixel electrodes all comprise a transparent substance.

10 10. The display device according to claim 4, wherein the second to n-th pixel electrodes all comprise a transparent substance.

11. The display device according to claim 5, wherein the second to n-th pixel electrodes all comprise a transparent substance.

15 12. The display device according to claim 6, wherein the second to n-th pixel electrodes all comprise a transparent substance.

13. The display device according to claim 7, wherein the first to n-th
20 light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

14. The display device according to claim 8, wherein the first to n-th light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

25 15. The display device according to claim 9, wherein the first to n-th

light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

16. The display device according to claim 10, wherein the first to n-th light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

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17. The display device according to claim 11, wherein the first to n-th light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

18. The display device according to claim 12, wherein the first to n-th light-emitting elements and the first to (n+1)th pixel electrodes are laminated.

10 19. A driving method of a display device comprising the steps of:

sequentially selecting any one of first to n-th (where n is a natural number, 2≤n) light-emitting elements that are included in pixels and emit different emission colors;

controlling potential between two electrodes of the selected light-emitting element; and

sequentially causing the light-emitting element to emit light.

15 20. An electronic apparatus using the display device according to any one of claims 1 to 18 or the driving method of the display device of claim 19.